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Document Number 1

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File: USPT

Aug 13, 1996

US-PAT-NO: 5545504

DOCUMENT-IDENTIFIER: US 5545504 A

TITLE: Ink jettable toner compositions and processes for making and using
DATE-ISSUED: August 13, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Keoshkerian; Barkev	Thornhill	N/A	N/A	CAX
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APPL-NO: 8/ 317044

DATE FILED: October 3, 1994

INT-CL: [6] G03 G 9/13, G03 G 9/08

US-CL-ISSUED: 430/137; 430/114, 430/115

US-CL-CURRENT: 430/137; 347/95, 430/114, 430/115

FIELD-OF-SEARCH: 430/137, 430/114, 430/115

REF-CITED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>3994994</u>	November 1976	Stolka	430/72
<u>4314931</u>	February 1982	Hoffend et al.	260/42.53
<u>4476210</u>	October 1984	Croucher et al.	430/114
<u>4530961</u>	July 1985	Nguyen et al.	524/832
<u>4597794</u>	July 1986	Ohta et al.	106/20
<u>4846893</u>	July 1989	Akasaki et al.	106/500
<u>5108863</u>	April 1992	Hsieh et al.	430/138
<u>5204208</u>	April 1993	Paine et al.	430/137
<u>5278239</u>	January 1994	Hoxmeier	525/232
<u>5281261</u>	January 1994	Lin	106/20R
<u>5322912</u>	June 1994	Georges et al.	256/204
<u>5401804</u>	March 1995	Georges et al.	256/267
<u>5412047</u>	May 1995	Georges et al.	526/204

ART-UNIT: 113

PRIMARY-EXAMINER: Wright; Lee C.

ATTY-AGENT-FIRM: Haack; John L.

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ABSTRACT:

A process for the preparation of toner compositions comprising: forming a mixture comprised of at least one free radical reactive monomer, a colorant, a stabilizer compound containing a stable free radical reactive group, and a liquid vehicle; and heating the mixture from about 75.degree. to about 200.degree. C. to effect polymerization of said monomer, wherein there results stabilized core resin particles containing said colorant and wherein said stabilized core particles are stabilized by said stable free radical reactive stabilizer compounds being bonded directly to the core particles.
21 Claims, 3 Drawing figures

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